# SX

## SX 550/ SX 700/ SX 850

5 YEARS WARRANTY

80 PLUS SILVER

## TECHNICAL DETAILS & SPECIAL FEATURES

**COMPATIBLE WITH LATEST PC-TECHNOLOGY**
Supports the newest specifications of ATX12V
Created for usage with current and next-generation multi-core CPU platforms.

**SUPPORT MULTI-GPU TECHNOLOGY**
Support PCI Express 2.0 next-generation graphic card with 8(6+2)pin PCI-E connector

**MAXIMUN EFFICIENCY**
Up to 91% of efficiency, compliant with 80-PLUS® SILVER efficiency requirement .

**RST (RAPID SWITCH TECHNOLOGY) POWER**
COUAGR SX provide highest efficiency performance with Rapid Switch Technology.

**DC-DC TECHNOLOGY**
DC-DC technology provides highest efficiency, most stable performance, and perfect regulation (Regulation <3%).

**CLC FILTER DESIGN**
CLC filter design efficiently suppress Ripple/Noise <1%

**HIGHEST DURABLE & RELIABLE SOLID CAPS FOR 12V,3.3V,5V**
The best solution for a High-End PSU by using solid caps for 12Vs, 3.3V, 5V, solid caps provide highest efficiency, best reliability, and extend power lifespan.

**105 °C JAPANESE CAPACITORS**
COUGAR use highest durable 105°C Japanese capacitors provide uncompromised performance and reliability, delivering 4 times the lifespan of conventional 85°C rated capacitors.

**HIGH PERFORMANCE AT 50°C**
Non-stop high performance and full rated wattage at 50°C/122°F ambient temperature.

**HDB (Hydro-Dynamic Bearing) 140mm FAN**
Advanced HDB (HYDRO-Dynamic Bearing) fan provide best lifespan and super silent performance.
Temperature-controlled design adapts its rotating speed to the PSU temperature. Even on its highest rotating level the fan is still quiet enough to be barely noticeable.

## TECHNICAL DETAILS & SPECIAL FEATURES

**DYNAMIC FOUR-12V RAIL**
Automatic dynamic load distribution on Four-12V rail to provide power separately to the GPU and the CPU. If you are not using all output lines, the PSU automatically reroutes needed power from unused lines. This improves the performance of the 12V lines considerably for systems with high-end graphics cards in SLI® or CrossFire® mode. and provide high voltage stability to keep components safe.

**FLEXIBLE CABLE MANAGEMENT**
The modular cables that reduce air friction to help maximize airflow through the PC case. The modular design also simplifies installation as it allows unprecedented flexibility in using only those cables which are needed.

**COMPLIANT WITH LATEST EUROPEAN DIRECTIVE 2009/125/EC (ErP)**
In standby consumption is <0.3W, compliant with economy-friendly electrical equipment.

**SUPPORTS THE ENERGY STAR 5.0**
Compatible with Energy star 5.0 computer system.

**FULL PROTECTIONS WITH OCP, SCP, OVP, UVP, OPP, OTP**

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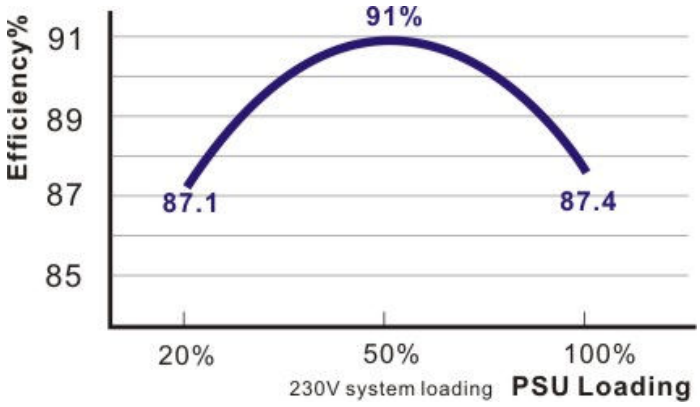
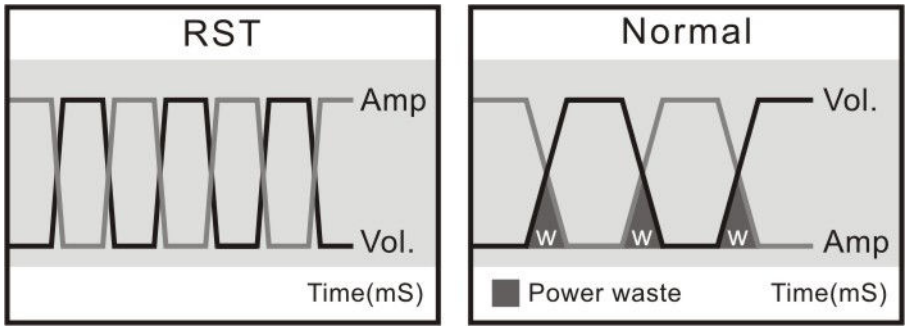
## 80 PLUS SILVER CERTIFICATION

Up to 91% of efficiency, compliant with 80-PLUS® SILVER efficiency requirement . Due to the extremely high efficiency of the COUGAR® SX-series you can reduce your electricity costs in spite of high performance.

COUGAR SX550/ SX700/SX850

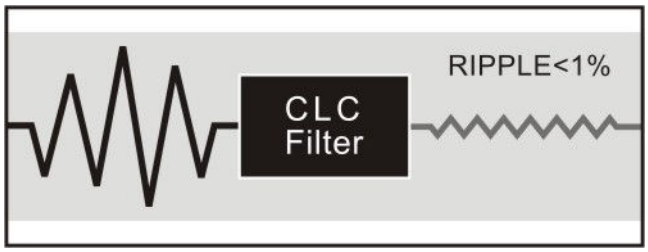


## RST (RAPID SWITCH TECHNOLOGY) POWER



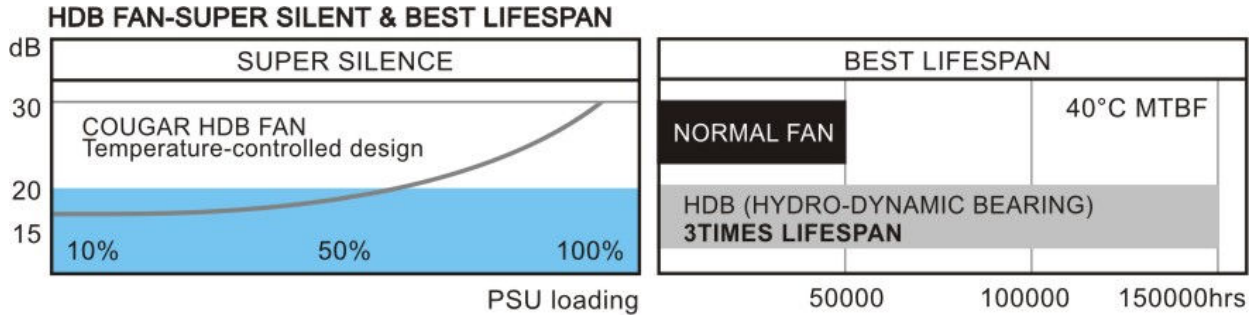

COUGAR SX provide highest efficiency performance and less wattage loss

## CLC FILTER DESIGN




COUGAR SX CLC filter design efficiently suppress Ripple/Noise <1%

## HDB (Hydro-Dynamic Bearing) 14cm FAN

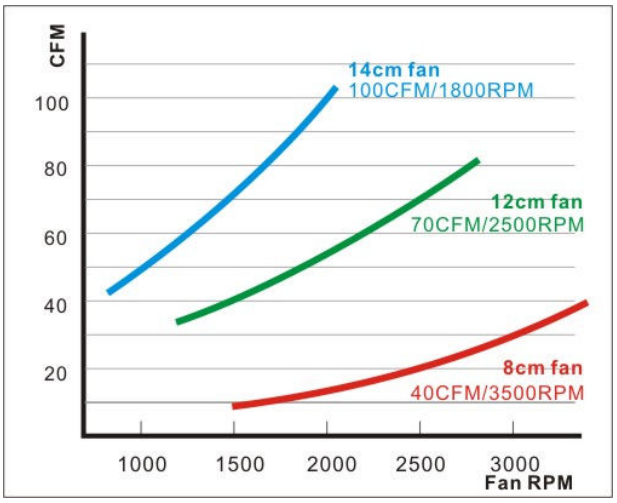



Advanced HDB (HYDRO-Dynamic Bearing) fan provide best lifespan and super silent performance.
Temperature-controlled design adapts its rotating speed to the PSU temperature. Even on its highest rotating level the fan is still quiet enough to be barely noticeable.

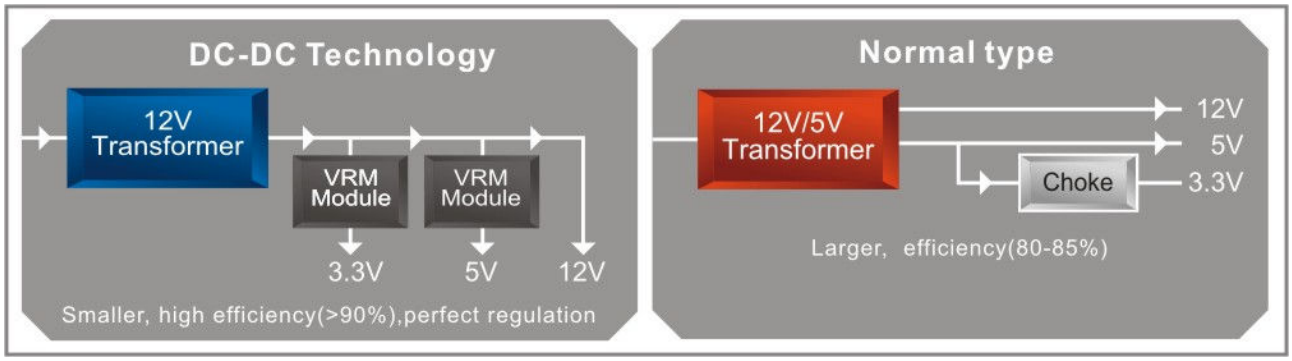
# TECHNICAL DETAILS & SPECIAL FEATURES

## 140mm FAN DESIGN

Better CFM means fan can provide better air flow and cooling performance.
14cm and 12cm fan can provide much better air flow just require low rpm than 8cm fan, therefore, 140mm fan is much better cooling performance, but is extremely low noise and longer life of the fan.



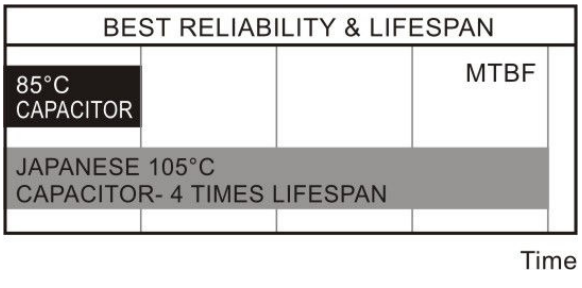

## DC to DC TECHNOLOGY

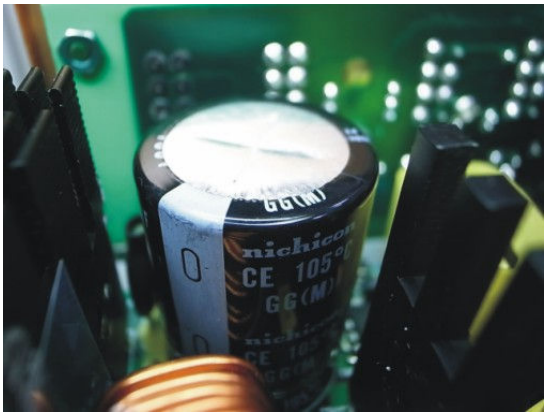



DC-DC technology for switching PSU has smaller volume, the highest efficiency, the most stable performance, and perfect regulation.(<3%)

## 105 °C JAPANESE CAPACITORS

COUGAR use the highest durable 105°C Japanese capacitors provide uncompromised performance and reliability, delivering 4 times the lifespan of conventional 85°C rated capacitors.



# TECHNICAL DETAILS & SPECIAL FEATURES

## HIGHEST DURABLE & RELIABLE SOLID CAPS FOR 12V,3.3V,5V

The best solution for a High-End PSU by using solid caps for 12Vs, 3.3V, 5V, solid caps provide highest efficiency, best reliability, and extend power lifespan.

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## FLEXIBLE CABLE MANAGEMENT

The modular cables that reduce air friction to help maximize airflow through the PC case. The modular design also simplifies installation as it allows unprecedented flexibility in using only those cables which are needed.

# SPECIFICATION

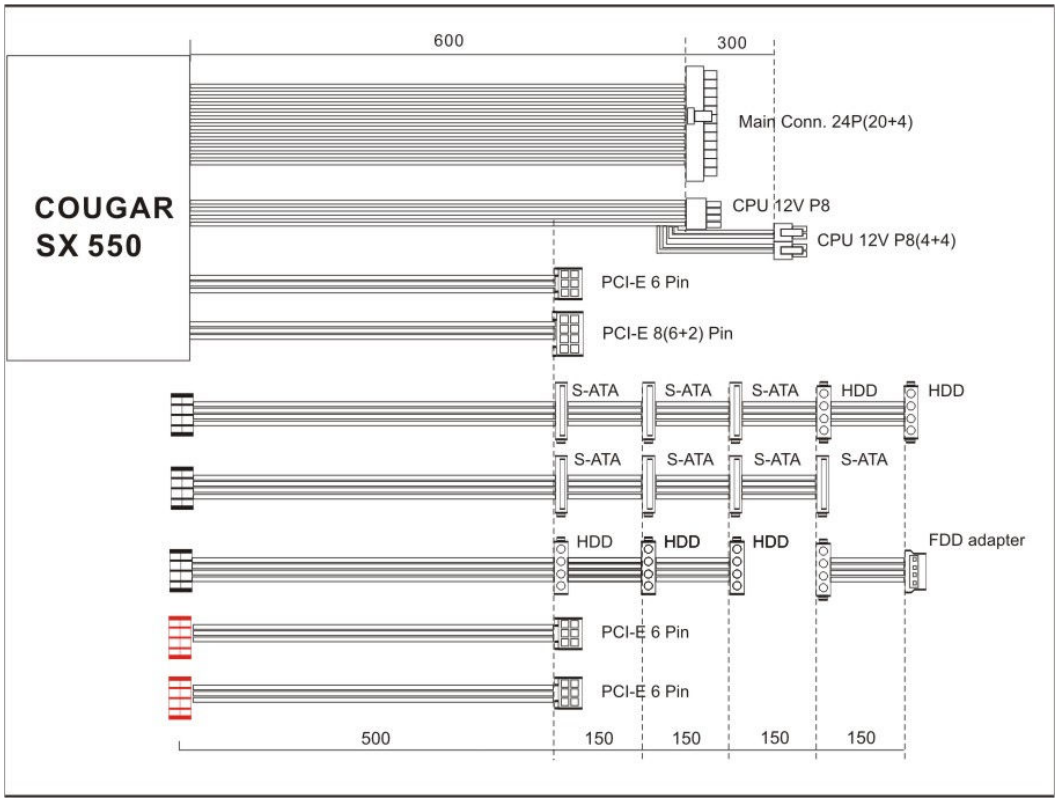
## RATING

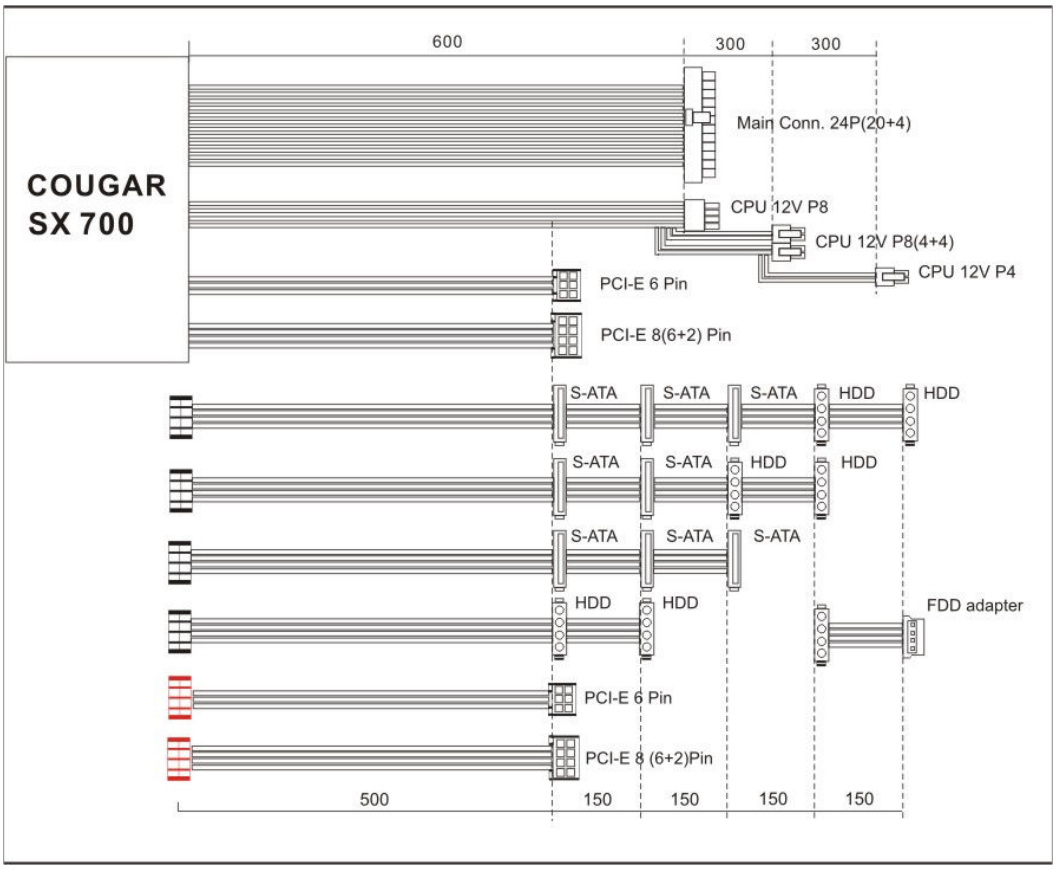
| Model Name | AC input | DC output | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | +3.3V | +5V | +12V1 | +12V2 | +12V3 | +12V4 | -12V | +5Vsb | Total output |
| COUGAR SX550 | 100V-240V 50-60Hz 10A-5A | 25A | 25A | 20A | 20A | 24A | 24A | 0.6A | 3A | 550W |
| | | 140W | | 542W | | | | | | |
| COUGAR SX700 | 115V-240V 50-60Hz 10A-5A | 25A | 25A | 20A | 20A | 24A | 24A | 0.6A | 3A | 700W |
| | | 150W | | 684W | | | | | | |
| COUGAR SX850 | 115V-240V 50-60Hz 10A-5A | 25A | 25A | 22A | 22A | 24A | 24A | 0.6A | 3A | 850W |
| | | 160W | | 828W | | | | | | |

## CABLES & CONNECTORS

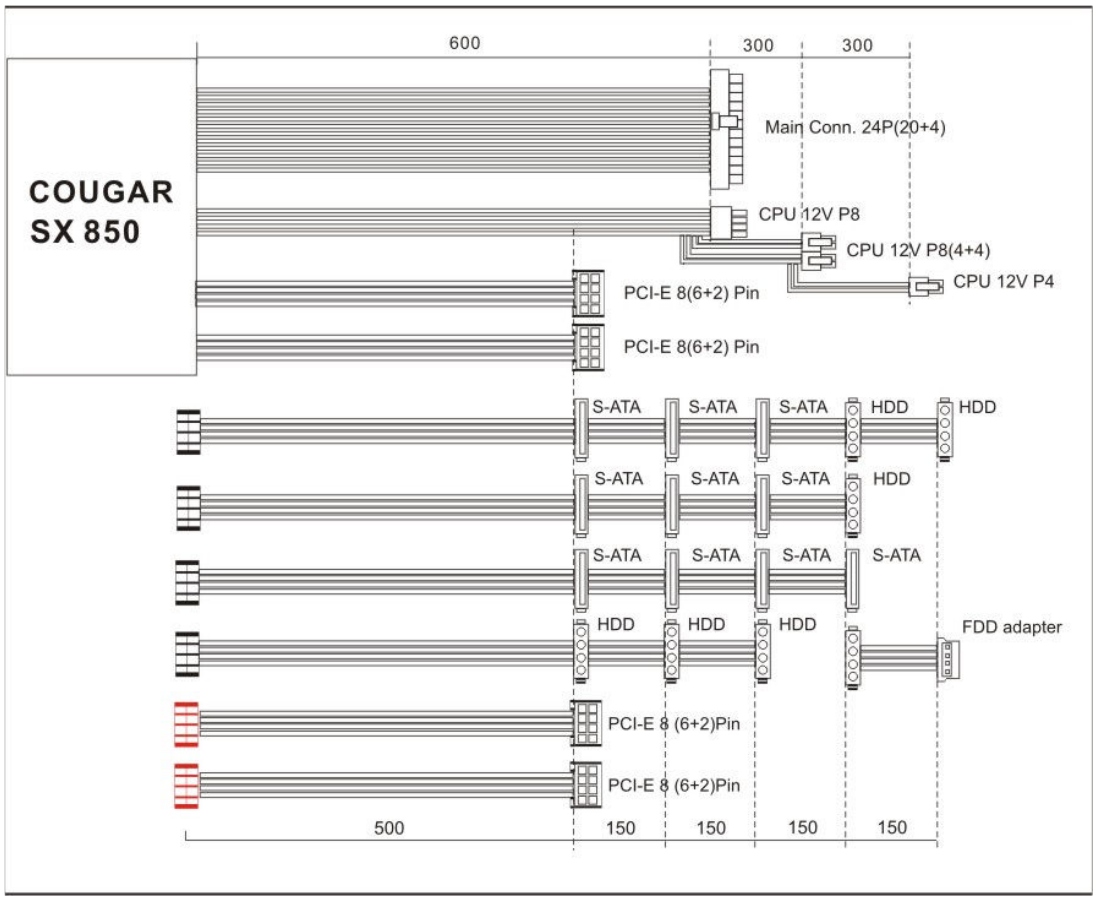
| Connector | Main Conn. | Peripheral Conn. | Floppy adapter. | CPU Conn. | S-ATA Conn. | PCI-E Conn. | PCI-E Conn. |
|---|---|---|---|---|---|---|---|
| Pin | 24(20+4) Pins | 4 Pins | 4 Pins | - | 5 Pins | 6 Pins | 8(6+2) Pins |
| COUGAR SX550 | 1 | 5 | 1 | 8+(4+4)P | 7 | 3 | 1 |
| COUGAR SX700 | 1 | 6 | 1 | 8+(4+4)+4 P | 8 | 2 | 2 |
| COUGAR SX850 | 1 | 6 | 1 | 8+(4+4)+4 P | 10 | - | 4 |

# SPECIFICATION



# SPECIFICATION




## DIMENSIONS

| | |
|---|---|
| Dimension (L*W*H) mm | 180 x 150 x 86 |

SPECIFICATION

## SAFETY FUNCTIONS

### UVP (Undervoltage protection)

If the voltages fall below a certain tolerance value on the single lines, the PSU automatically switches off.

### OVP (Overvoltage protection)

If the voltages increase above a certain tolerance value on the single lines, the PSU automatically switches off.

### SCP (Short-circuit protection)

In the case of a short-circuit this feature prevents damage to the core components of the PSU and its system components.

### OPP (Overload protection)

If the system is oversized and requires more power from the PSU than it can perform, this protection function is activated.

### OCP (Overcurrent protection)

If the load on a single line is higher than indicated, the PSU automatically switches off.

### OTP (Overtemperature protection)

If the temperature is too high, the PSU automatically switches off.

## SAFETY & EMI CERTIFIED: